NC/QC/YPD/W3-02/2018-19/AL-C1 Date: 21-05-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Providing cement concrete roads to 1st A main 2nd Main and cross roads at Attur Layout in Ward No.03.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Mr. Achutha Murthy K, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : JAYPEE
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**173 min**	Shall not be less than 30 min
2	Final setting time	**254 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.20 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.81 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**29.01 N/Sq mm**	Shall not be less than 27 N/Sqmm

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Proprietor

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NC/QC/YPD/W3-02/2018-19/AL-PCC1

Date: 21-05-2018

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Providing cement concrete roads to 1st A main 2nd Main and cross roads at Attur Layout in Ward No.03.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Mr. Achutha Murthy K, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**58.35**	0 -20	30- 70
10mm	**24.80**	0 -5	10- 35
4.75mm	**3.41**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**95.30**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**88.10**	60-95	75-100	85-100	
01.18	**74.65**	30-70	55-90	75-100	
600.mic	**43.10**	15-34	35-59	60-79	
300.mic	**17.25**	5-20	8-30	12-40	
150.mic	**6.80**	0-10	0-10	0-10	

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NCQC\YPD\W3-02\2018-19\AL-C2 Date: 24-05-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Providing cement concrete roads to 1st A main 2nd Main and cross roads at Attur Layout in Ward No.05.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Mr. Achutha Murthy K, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : JAYPEE
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**171 min**	Shall not be less than 30 min
2	Final setting time	**260 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.13 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.36 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.71 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/QC/YPD/W3-02/2018-19/AL-FA1 **Date: 24-05-2018**

L TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.

{Project*: Providing cement concrete roads to 1st A main 2nd Main and cross roads at Attur Layout in Ward No.03.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Mr. Achutha Murthy K, Bangalore.

TABLE - L1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	97.95	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	80.20	60-95	75-100	85-100	
01.18	66.40	30-70	55-90	75-100	
600 mic	54.15	15.34	35-59	60-79	
300 mic	21.70	5-20	8-30	12-40	
150 mic	7.25	0-10	0-10	0-10	

TABLE L2 :

Sl No	Test Conducted	Sample	Results	**Requirements** as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**16.93 %**	-----
2	Silt Content	----	**0.72 %**	Not more than 8%
3	Specific Gravity	----	**2.60**	-------

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NC/QC/YPD/W3-02/2018-19/AL-CA1

Date: 24-05-2018

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.

(Project*: Providing cement concrete roads to 1st A main 2nd Main and cross roads at Attur Layout in Ward No.03.)

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Mr. Achutha Murthy K, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	96.25	85-100	90 - 100
10 mm	43.90	0 - 20	25 - 55
4.75 mm	6.85	0 - 5	0 - 10

TABLE 1.2 :

Sl. No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	21.65 %	Not to exceed 25 %
2.	Crushing value	24.07 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

K... R

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NC/QC/YPD/W3-02/2018-19/AL-S1

Date: 24-05-2018

L TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 10 mm **TMT Steel.**

(Project*: Providing cement concrete roads to 1st A main 2nd Main and cross roads at Attur Layout in Ward No.03.)

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Mr. Achutha Murthy K, Bangalore.

TABLE – 1

Sl. No.	Details	For 10 mm	
		Test Results	Min Req. as per IS 1786-2008
01	Observed diameter of bar	**10.0 mm**	10.0 mm
02	Observed Wt/m Length **Kg/m**	**0.637**	0.567
03	Proof stress/Yield stress, fy , **N/mm^2**	**542.0**	500.0
04	Bend/ Re bend Test	**Ok**	---
05	Percentage of Elongation, %	**21.70**	12.00
06	Ultimate Tensile Strength **N/mm^2**	**654.0**	545.0

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Page No. 1/1,

For Newzen Consultants Bangalore

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NC/QC/YPD/W3-02/2018-19/AL -SSM1 Date: 26-05-2018

1. TESTING OF STONE SAMPLE :

Sub: Testing of Size stone.

{Project*: Providing cement concrete roads to 1st A main 2nd Main and cross roads at Attur Layout in Ward No.03.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Mr. Achutha Murthy K, Bangalore.

Technical Reference: IS 1121(Part 1) -1974 (R.A on 1998)

Table 1.1 :

SL No	Details of Tests	Observed Value	Normal Values
01	Compressive Strength	**1376.00** Kg/ Sqcm	Not less than 1000.00 Kg/Sqcm
02	Water absorption,%	**0.41 %**	Not more than 2.0 %

*As Furnished by Client.

The Results relate only to the items tested.

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NC/QC/YPD/W3-02/2018-19/AL-CB1 **Date: 09-06-2018**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Providing cement concrete roads to 1st A main 2nd Main and cross roads at Attur Layout in Ward No.03.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Mr. Achutha Murthy K, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	02-06-18	09-06-18	07	22500	370	16.44	**16.96**
	002	"	"	"	"	380	16.89	
	003	"	"	"	"	395	17.56	

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NC/QC/YPD/W3-02/2018-19/AL-CB2 **Date: 12-06-2018**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Providing cement concrete roads to 1st A main 2nd Main and cross roads at Attur Layout in Ward No.03.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Mr. Achutha Murthy K, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	05-06-18	12-06-18	07	22500	365	16.22	**16.30**
	002	"	"	"	"	375	16.67	
	003	"	"	"	"	360	16.00	

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Proprietor

NC/QC/YPD/W3-02/2018-19/AL-CB3 **Date: 15-06-2018**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Providing cement concrete roads to 1st A main 2nd Main and cross roads at Attur Layout in Ward No.03.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Mr. Achutha Murthy K, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	08-06-18	15-06-18	07	22500	370	16.44	**16.81**
	002	"	"	"	"	385	17.11	
	003	"	"	"	"	380	16.89	

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Proprietor

NC/QC/YPD/W3-02/2018-19/AL-CB4 **Date: 18-06-2018**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Providing cement concrete roads to 1st A main 2nd Main and cross roads at Attur Layout in Ward No.03.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Mr. Achutha Murthy K, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	11-06-18	18-06-18	07	22500	355	15.78	**16.37**
	002	"	"	"	"	380	16.89	
	003	"	"	"	"	370	16.44	

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Proprietor

NC/QC/YPD/W3-02/2018-19/AL-CB1A **Date: 30-06-2018**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Providing cement concrete roads to 1st A main 2nd Main and cross roads at Attur Layout in Ward No.03.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Mr. Achutha Murthy K, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	02-06-18	30-06-18	28	22500	520	23.11	**22.59**
	002	"	"	"	"	500	22.22	
	003	"	"	"	"	505	22.44	

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For Newzen Consultants Bangalore

Proprietor

NC/QC/YPD/W3-02/2018-19/AL-CB2A

Date: 03-07-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Providing cement concrete roads to 1st A main 2nd Main and cross roads at Attur Layout in Ward No.03.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Mr. Achutha Murthy K, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	05-06-18	03-07-18	28	22500	510	22.67	**22.89**
	002	"	"	"	"	525	23.33	
	003	"	"	"	"	510	22.67	

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Proprietor

NC/QC/YPD/W3-02/2018-19/AL-CB3A

Date: 06-07-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Providing cement concrete roads to 1st A main 2nd Main and cross roads at Attur Layout in Ward No.03.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Mr. Achutha Murthy K, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	08-06-18	06-07-18	28	22500	490	21.78	**22.15**
	002	"	"	"	"	505	22.44	
	003	"	"	"	"	500	22.22	

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NC/QC/YPD/W3-02/2018-19/AL-CB4A **Date: 09-07-2018**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Providing cement concrete roads to 1st A main 2nd Main and cross roads at Attur Layout in Ward No.03.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Mr. Achutha Murthy K, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	11-06-18	09-07-18	28	22500	510	22.67	**22.74**
	002	"	"	"	"	520	23.11	
	003	"	"	"	"	505	22.44	

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